

What is Claimed is:

1. A piezoelectric generator that creates a potential when physically distorted, said generator comprising:

5 a piezoelectric layer, wherein a portion of said piezoelectric layer has a maximum displacement; and

a frame for said piezoelectric layer, wherein said portion substantially fits into said frame when said maximum displacement occurs.

2. An array of piezoelectric generators, said array comprising:

5 a plurality of generators, wherein said generators include a plurality of piezoelectric elements, said plurality of generators are separated by an isolation layer, said plurality of generators have a first stiffness, said isolation layer has a second stiffness, and said second stiffness is greater than said first stiffness.

10 3. An array of piezoelectric generators, said array comprising:

15 a plurality of generators, wherein said generators include a plurality of piezoelectric elements, said plurality of generators are separated by an isolation layer, said plurality of generators have a first stiffness, said isolation layer has a second stiffness, and said second stiffness is smaller than said first stiffness.